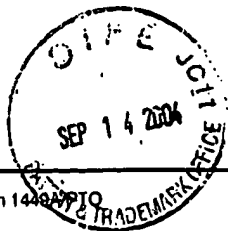


Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	10/691,942
		Filing Date	October 22, 2003
		First Named Inventor	CHISHTI, MUHAMMAD
		Art Unit	3732
Examiner Name	WILSON, JOHN J.		
Sheet 1 of 10	Attorney Docket Number		018563-005820US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
[Handwritten mark]	AA	2,467,432	04-19-1949	Kesling	[Large handwritten bracket]
	AB	3,660,900	05-09-1972	Andrews	
	AC	3,860,803	01-14-1975	Levine	
	AD	3,916,526	11-04-1975	Schudy	
	AE	3,950,851	04-20-1976	Bergersen	
	AF	4,014,096	03-29-1977	Dellinger	
	AG	4,195,046	03-25-1980	Kesling	
	AH	4,324,546	04-13-1982	Heidinger et al.	
	AI	4,348,178	09-07-1982	Kurz	
	AJ	4,478,580	10-23-1984	Barrut	
	AK	4,504,225	03-12-1985	Yoshii	
	AL	4,505,673	03-19-1985	Yoshii	
	AM	4,575,805	03-11-1986	Moermann, et al.	
	AN	4,611,288	09-09-1986	Duret et al.	
	AO	4,656,860	04-14-1987	Orthuber et al.	
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	AS	4,763,791	08-16-1988	Halverson et al.	
	AT	4,793,803	12-27-1988	Martz	
	AU	4,798,534	01-17-1989	Breads	
	AV	4,837,732	06-06-1989	Brandestini et al.	
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	AZ	4,937,928	07-03-1990	van der Zel	
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BF	5,035,613	07-30-1991	Breads et al.		
BG	5,055,039	10-08-1991	Abbatte et al.		
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BI	5,100,316	03-31-1992	Wildman		
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BK	5,128,870	07-07-1992	Erdman et al.		
BL	5,131,843	07-21-1992	Hilgers et al.		
BM	5,131,844	07-21-1992	Marinaccio et al.		
BN	5,139,419	08-18-1992	Andreiko et al.		
BO	5,184,306	02-02-1993	Erdman et al.		
Examiner Signature	[Handwritten Signature: John Wilson]		Date Considered	12/20/04	

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PTO/SB/08A (08-03)

<b>Substitute for form 1449 PTO</b> <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/691,942	
			Filing Date	October 22, 2003	
			First Named Inventor	CHISHTI, MUHAMMAD	
			Art Unit	3732	
Examiner Name	WILSON, JOHN J.				
Attorney Docket Number	018563-005820US				
Sheet	2	of	10		

U.S. PATENT DOCUMENTS+						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
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	BT	5,338,198		08-16-1994	Wu et al.	
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	BV	5,342,202		08-23-1994	Deshayes	
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	BY	5,395,238		03-07-1995	Andreiko et al.	
	BZ	5,431,562		11-11-1995	Andreiko et al.	
	CA	5,440,496		08-08-1995	Andersson et al.	
	CB	5,447,432		09-05-1995	Andersson et al.	
	CC	5,452,219		09-19-1995	Dehoff et al.	
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	CE	5,456,600		10-10-1995	Andreiko et al.	
	CF	5,474,448		12-12-1995	Andreiko et al.	
	CG	5,518,397		05-21-1996	Andreiko et al.	
	CH	5,533,895		07-09-1996	Andreiko et al.	
	CI	5,542,842		08-06-1996	Andreiko et al.	
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CP	5,683,243		11-04-1997	Andreiko et al.		
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CR	5,740,267		04-14-1998	Echerer et al.		
CS	5,975,893		11-02-1999	Chishu et al.		

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
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	CV	EP	376,873	A2	07-04-1990	Shafir		<input type="checkbox"/>
	CW	EP	490,848	B1	06-17-1992	Andersson et al.		<input type="checkbox"/>
	CX	EP	541,500	A1	06-12-1998	Andersson et al.		<input type="checkbox"/>

Examiner  
Signature*John Wilson*Date  
Considered

12/20/04

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/691,942
				Filing Date	October 22, 2003
				First Named Inventor	CHISHTI, MUHAMMAD
				Art Unit	3732
Examiner Name	WILSON, JOHN J.				
Sheet	3	of	10	Attorney Docket Number	018563-005820US

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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	DA	FR	2,652,256	A1	03-29-1991	Jourda		<input type="checkbox"/>
	DB	FR	2,369,828	A1	06-02-1978	Suyehiro		<input type="checkbox"/>
	DC	WO	90/08,512	A1	08-09-1990	Lemgren		<input type="checkbox"/>
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	DE	WO	94/10,935	A1	05-26-1994	Andreiko et al.		<input type="checkbox"/>
	DF	WO	98/44,865	A1	10-15-1998	Andersson		<input type="checkbox"/>
	DG	WO	98/58,596	A1	12-30-1998	Chishū et al.		<input type="checkbox"/>

Examiner Signature	<i>John Wilson</i>	Date Considered	12/20/04
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Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/691,942
		Filing Date	October 22, 2003
		First Named Inventor	CHISHTI, MUHAMMAD
		Art Unit	3732
		Examiner Name	WILSON, JOHN J.
Sheet	4	of	10
		Attorney Docket Number	018563-005820US

NON PATENT LITERATURE DOCUMENTS			
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	DH	ALEXANDER et al., "The DigiGraph Work Station Part 2, Clinical Management," <i>JCO</i> (July 1990), pp. 402-407.	
	DI	ALTSCHULER et al., "Laser Electro-Optic System for Rapid Three-Dimensional (3D) Topographic Mapping of Surfaces," <i>Optical Engineering</i> , Vol. 20(6) (1981), pp. 953-961.	
	DJ	ALTSCHULER et al., "Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix," <i>SPIE Imaging Applications for Automated Industrial Inspection and Assembly</i> , vol. 182 (1979), p. 187-191.	
	DK	ALTSCHULER et al., "Analysis of 3-D Data for Comparative 3-D Serial Growth Pattern Studies of Oral-Facial Structures," Program and Abstracts of Papers, Feb. 1975, <i>Journal of Dental Research</i> , Vol. 54, IADR Abstracts 1979, 2 pages total.	
	DL	ALTSCHULER, "3D Mapping of Maxillo-Facial Prosthesis," AADR Abstract #607, 1980, 2 pages total..	
	DM	American Association for Dental Research, Summary of Activities, March 20-23, 1980, Los Angeles, CA, p. 195.	
	DN	ANDERSSON et al., "Clinical Results with Titanium Crowns Fabricated with Machine Duplication and Spark Erosion," <i>Acta Odontologica Scandinavica</i> , Vol. 47 (1989), pp. 279-286.	
	DO	BAUMRIND et al., "A stereophotogrammetric system for the detection of prosthesis loosening in total hip arthroplasty, Applications of Human Biostereometrics (NATO)," Proceedings of the Society of Photo-Optical Instrumentation Engineers, Vol. 166, July 9-13, 1978, pp. 112-123.	
	DP	BAUMRIND et al., "Mapping the Skull in 3-D, Reprinted from The Journal, <i>California Dental Association</i> , Vol. 48, No. 2 (1972 Fall Issue) 11 pages total.	
	DQ	BAUMRIND et al., "Seminars in Orthodontics," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), p. 222.	
	DR	BAUMRIND, "A System for Craniofacial Mapping Through the Integration of Data from Stereo X-Ray Films and Stereo Photographs," An invited paper submitted to the 1975 American Society of Photogram. Symposium on Close-Range Photogram. Systems, University of Ill., Aug. 26-30, 1975, pp. 1-25.	
	DS	BAUMRIND, "Integrated Three-Dimensional Craniofacial Mapping: Background, Principles, and Perspectives," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 223-232.	
	DT	BEGOLE et al., "A Computer System for the Analysis of Dental Casts," <i>The Angle Orthodontist</i> , Vol. 51 No. 3 (July 1981), pp. 253-259.	
	DU	BERNARD et al., "Computerized diagnosis in Orthodontics for Epidemiological Studies" (progress report), Abstracts of Papers, <i>Journal of Dental Research</i> , Vol. 71, Special Issue March 1-14, 1992, pp. 28-36.	
	DV	BHATIA et al., "A Computer-Aided Design for Orthognathic Surgery," <i>British Journal of Oral and Maxillofacial Surgery</i> , Vol. 22 (1984), pp. 237-253.	
	DW	BIGGERSTAFF et al., "Computerized analysis of occlusion in the postcanine dentition," <i>American Journal of Orthodontics</i> , Vol. 61, No. 3 (Mar. 1972), pp. 245-254.	

Examiner Signature	<i>John Wilson</i>	Date Considered	12/20/04
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Substitute for form 1449B/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Application Number</b>	10/691,942	
			<b>Filing Date</b>	October 22, 2003	
			<b>First Named Inventor</b>	CHISHTI, MUHAMMAD	
			<b>Art Unit</b>	3732	
			<b>Examiner Name</b>	WILSON, JOHN J.	
<b>Sheet</b>	<b>5</b>	<b>of</b>	<b>10</b>	<b>Attorney Docket Number</b>	018563-005820US

NON PATENT LITERATURE DOCUMENTS			
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	DX	BIGGERSTAFF, "Computerized Diagnostic Setups and Simulations," <i>The Angle Orthodontist</i> , Vol. 40, No. 1 (Jan: 1970), pp. 28-36.	
	DY	BRANDESTINI et al., "Computer Machined Ceramic Inlays: In Vitro Marginal Adaptation," <i>Journal of Dental Research</i> , Vol. 64/Special Issue/Abstracts, IADR/AADR Abstracts 1985, 1 page total.	
	DZ	BROOK et al., "An Image Analysis System for the Determination of Tooth Dimensions from Study Casts: Comparison with Manual Measurements of Mesio-distal Diameter, Abstract of Papers, 1985, Dept. of Children's Dentistry and Orthodontics, <i>J Dent Res.</i> , March 1986, pp. 428-431.	
	EA	BURSTONE (interview), "Dr. Charles J. Burstone on The Uses of the Computer in Orthodontic Practice (Parts 1 and 2)," <i>Journal of Clinical Orthodontics</i> , (Part 1) Vol. 8, No. 7, July 1979; (Part 2) Vol. 8, No. 8 pp. 539-551, Aug. 1979.	
	EB	BURSTONE et al., "Precision adjustment of the transpalatal lingual arch: Computer arch form predetermination," <i>Am. Journal of Orthodontics</i> , Vol. 79, No. 2 (Feb. 1981), pp. 115-133.	
	EC	CHACONAS et al., "The DigiGraph Work Station, Part 1, Basic Concepts," <i>JCO</i> (June 1990), pp. 360-367.	
	ED	CHAFETZ et al., "Subsidence of the Femoral Prosthesis, A Stereophotogrammetric Evaluation," <i>Clinical Orthopaedics and Related Research</i> , No. 201 (December 1985), pp. 60-67.	
	EE	CHIAPPONE, "Constructing the gnathologic setup and positioner" <i>J. Clin. Orthod.</i> , 14:121-133, 1980.	
	EF	COTTINGHAM, "Gnathologic clear plastic positioner" <i>Am. J. Orthod.</i> , 55:23-31, 1969.	
	EG	CRAWFORD, "Computers in Dentistry: Part 1: CAD/CAM, The Computer Moves Chairside," "Part 2: F. Duret — A Man With A Vision," "Part 3: The Computer Gives New Vision- Literally," "Part 4: Bytes 'N Bites' The Computer Moves From The Front Desk To The Operator, <i>Canadian Dental Journal</i> , vol. 54(9), (1988), pp. 661-666.	
	EH	CRAWFORD, "CAD/CAM in the Dental Office: Does It Work?" <i>Canadian Dental Journal</i> , Vol. 57, No. 2 (Feb. 1991), pp. 121-123.	
	EI	CROOKS, "CAD/CAM Comes to USC," <i>USC Dentistry</i> , (Spring 1990) pp. 14-17.	
	EJ	CURETON, "Correcting malaligned mandibular incisors with removable retainers" <i>J. Clin. Orthod.</i> , 30:390-395, 1996.	
	EK	CURRY et al., "Integrated Three-Dimensional Craniofacial Mapping at the Craniofacial Research Instrumentation Laboratory/University of the Pacific," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 258-265.	
	EL	CUTTING et al., "Three-Dimensional Computer-Assisted Design of Craniofacial Surgical Procedures: Optimization and Interaction with Cephalometric and CT-Based Models," <i>Plastic and Reconstructive Surgery</i> , Vol. 77, No. 6 (June 1986), pp. 877-885.	
	EM	DCS Dental AG, "The CAD/CAM 'DCS Titan System' for Production of Crowns/Bridges" <i>DSC Production AG</i> , Jan. 1992, pp. 1-7.	

Examiner Signature	<i>John Wilson</i>	Date Considered	12/20/04
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<i>Application Number</i>	10/691,942
				<i>Filing Date</i>	October 22, 2003
				<i>First Named Inventor</i>	CHISHTI, MUHAMMAD
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				<i>Examiner Name</i>	WILSON, JOHN J.
(use as many sheets as necessary)				<i>Attorney Docket Number</i>	018563-005820US
Sheet	6	of	10		

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	EN	DEFRANCO et al., "Three-Dimensional Large Displacement Analysis of Orthodontic Appliances," <i>J. Biomechanics</i> , Vol. 9 (1976), pp. 793-801.	
	EO	Dental Institute University of Zurich Switzerland, Program for International Symposium on Computer Restorations: State of the Art of the CEREC-Method, May 1991, 3 pages total.	
	EP	DenTrac Corporation; Dentrac document, pp. 4-13.	
	EQ	DURET et al., "CAD-CAM in Dentistry," <i>Journal of the American Dental Association</i> , Vol. 117 (Nov. 1988), pp. 715-720.	
	ER	DURET et al., "CAD/CAM imaging in dentistry," <i>Current Opinion in Dentistry</i> , Vol. 1 (1991), pp. 150-154.	
	ES	DURET, "The Dental CAD/CAM, General Description of the Project," <i>Hannson International Product Brochure</i> , Jan. 1986., 18 pages total.	
	ET	DURET, "Vers une prothese informatisee," (English translation also attached), <i>Tonus</i> , vol. 75, (Nov. 15, 1985), pp. 55-57.	
	EU	ECONOMIDES, "The Microcomputer in the Orthodontic Office," <i>JCO</i> , (Nov. 1979), pp. 767-772.	
	EV	ELSASSER, "Some observations on the history and uses of the Kesling positioner" <i>Am. J. Orthod.</i> , 36:368-374, 1950.	
	EW	FABER et al., "Computerized interactive orthodontic treatment planning," <i>Am. J. Orthod.</i> , Vol. 73, No. 1 (Jan. 1978), pp. 36-46.	
	EX	FELTON et al., "A computerized analysis of the shape and stability of mandibular arch form," <i>Am. Journal of Orthodontics and Dentofacial Orthopedics</i> , Vol. 92, No. 6 (Dec. 1987), pp. 478-483.	
	EY	FRIEDE et al., "Accuracy of Cephalometric Prediction in Orthognathic Surgery," <i>Abstract of Papers, Journal of Dental Research</i> , Vol. 70 (1987), pp. 754-760.	
	EZ	GIM-ALLDENT Deutschland, "Das DUX System: Die Technik" 4 pages total.	
	FA	GRAYSON, "New Methods for Three Dimensional Analysis of Craniofacial Deformity," Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery, AAOMS Sept. 13, 1990, 3 pages total.	
	FB	GUESS et al., "Computer Treatment Estimates in Orthodontics and Orthognathic Surgery," <i>JCO</i> , (April, 1989), pp. 262-28.	
	FC	HEAVEN et al., "Computer-based Image Analysis of Artificial Root Surface Caries," "Automated Identification of Landmarks in Cephalometric Radiographs," <i>Abstracts of Papers, Journal of Dental Research</i> , Vol. 67, March 9-13, 1988, 2 pages total.	

Examiner Signature	<i>John Wilson</i>	Date Considered	12/20/04
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		Examiner Name	WILSON, JOHN J.		
Sheet	7	of	10	Attorney Docket Number	018563-005820US

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	FD	HOFFMANN et al., "Role of Cephalometry for Planning of Jaw Orthopedics and Jaw Surgery Procedures," (Article Summary in English, article in German), <i>Informationen</i> , (March 1991), pp. 375-396.	
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	FI	JERROLD, "The problem, electronic data transmission and the law," <i>AJO-DO</i> , (Apr. 1988), pp. 478-479.	
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				Filing Date	October 22, 2003
				First Named Inventor	CHISHTI, MUHAMMAD
				Art Unit	3732
				Examiner Name	WILSON, JOHN J.
Sheet	8	of	10	Attorney Docket Number	018563-005820US

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	FT	MCNAMARA et al., <i>Orthodontic and Orthopedic Treatment in the Mixed Dentition</i> , Needham Press, January 1993. pp.347-353.	
	FU	MCNAMARA et al., "Invisible Retainers", <i>J. Clinical Orthodontics</i> , (August 1985) pp. 570-576.	
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	FY	NAHOUM, "The vacuum formed dental contour appliance" <i>The New York State Dental Journal</i> , 30(9):385-390, Nov. 1964.	
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	GI	REKOW, "Dental CAD-CAM Systems: What is the State of the Art?" <i>Journal of the American Dental Assoc.</i> , Vol. 122 (1991), pp. 43-48.	

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	GK	RICHMOND et al., Research Reports, "The development of a 3D Cast Analysis System," <i>British Journal of Orthodontics</i> , pp. 53-54.	
	GL	RICHMOND, "Recording the dental cast in three dimensions," <i>Am. J. Orthod. Dentofac. Orthop.</i> , Vol. 92, No. 3, (Sept. 1987), pp.199-206.	
	GM	RUDGE, "Dental arch analysis: arch form, A review of the literature," <i>European Journal of Orthodontics</i> , Vol. 3, No. 4 (1981), pp.279-284.	
	GN	SAKUDA et al., "Integrated information-processing system in clinical orthodontics: An approach with use of a computer network system," <i>Am. J. Orthod. Dentofac. Orthop.</i> Vol. 101 No. 3 (March 1992), pp. 210-220.	
	GO	SHELLHAS et al., "Three-Dimensional Computer Tomography in Maxillofacial Surgical Planning," <i>Arch Otolaryngol Head Neck Surg.</i> Vol. 114 (April 1988), pp. 438-442.	
	GP	SEGÜ et al., "Computer-aided Cefalometry and New Mechanics in Orthodontics" (Article Summary in English, article in German), <i>Fortschr. Kieferorthop.</i> 44, 370-376 (Nr. 5), 1983	
	GQ	SHILLIDAY, "Minimizing finishing problems with the mini-positioner" <i>Am. J. Orthod.</i> 59:596-599, 1971	
	GR	Siemens, "CEREC - Computer-Reconstruction, "High Tech in der Zahnmedizin, 14 page total.	
	GS	Sirona Dental Systems GmbH, CEREC 3D, Manuel utilisateur, Version 2.0X (in French), 2003, 114 pages total.	
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	GV	U.S. Department of Commerce, National Technical Information Service, "Holodontology: An Introduction to Dental Laser Holography," School of Aerospace Medicine Brooks AFB Tex, March 1973, 37 pages total.	
	GW	U.S. Provisional Patent Application No. 60/050342, filed on June 20, 1997, 41 pages total.	
	GX	VAN DER LINDEN et al., Three-Dimensional Analysis of Dental Casts by Means of the Optocom," <i>J Dent Res</i> , July-August 1972, p. 1101.	
	GY	VAN DER LINDEN, "A New Method to Determine Tooth Positions and Dental Arch Dimensions," July-August 1972, p. 1104.	

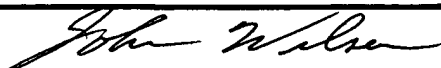
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	GZ	VAN DER ZEL, "Ceramic-fused-to-metal Restorations with a New CAD/CAM System," <i>Quintessence International</i> , vol. 24(11) (1993), pp. 769-778.		
	HA	VARADY et al., "Reverse Engineering of Geometric Models - An Introduction," May 13, 1996, pp. 1-28.		
	HB	WARUNEX et al., "Clinical use of silicone elastomer appliances" <i>JCO</i> , MH (10):694-700, 1989.		
	HC	WARUNEX et al., "Physical and mechanical properties of elastomers in orthodontic positioners" <i>Am. J. Orthod. Dentofac. Orthop.</i> , 95:388-400, 1989.		
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	HI	YAMAMOTO et al., "Optical measurement of dental cast profile and application to analysis of three-dimensional tooth movement in orthodontics," <i>Frontiers in Med. and Biol. Eng'g</i> , Vol. 1, No. 2 (1988), pp. 119-130.		

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